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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/701,433	11/29/2000	Kuniyuki Kajita	L9289.00121	9782
7590 02/27/2004		EXAMINER		
Stevens Davis Miller & Mosher			CHUNG, PHUNG M	
Suite 850 1615 L Street N	ANA		ART UNIT	PAPER NUMBER.
Washington, DC 20036			2133	11
,			DATE MAILED: 02/27/2004	((

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

•	Applicati n N .	Applicant(s)
065 - 4 - 4' 0	09/701,433	KAJITA, KUNIYUKI
Offic Action Summary	Examin r	Art Unit
	Phung M. Chung	2133
The MAILING DATE f this communication app Period for Reply	ears nth c ver sheet v	vith the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a y within the statutory minimum of th will apply and will expire SIX (6) MC	irty (30) days will be considered timely. NTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).
Status		
1)⊠ Responsive to communication(s) filed on <u>9/30/</u> 2a)□ This action is FINAL . 2b)⊠ This 3)□ Since this application is in condition for allower closed in accordance with the practice under E	action is non-final. nce except for formal ma	•
Disposition of Claims		
4) ☐ Claim(s) 11-20 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 11-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated any not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to drawing(s) be held in abeya tion is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in a rity documents have bee u (PCT Rule 17.2(a)).	Application No n received in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statemient(s) (PTO-1449 or PTO/SB/08)	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152)
Paper No(s)/Mail Date <u>5.8.11</u> .	6) Other: _	—·

Application/Control Number: 09/701,433

Art Unit: 2133

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 11-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Park (6,160,840) in view of Yi (5,978,365).

As per claims 11, 15 and 17, Park discloses an apparatus for puncturing and recovering code in spread spectrum communication system, comprising:

An interleaver that performs interleaving interleaving data;

A rate matcher that perform adjustment of data length by increasing (repeating) or decreasing (puncturing) the bits of data; and

A transmitter that transmits the data length adjusted data adjusted by the rate matcher. (See col. 3, line 64 to col. 4, line 18 and col. 8, lines 45-51).

Park does not disclose the rate matcher (repeater or puncture) that adjust data length from the interleaved data. However, Yi discloses puncturer for puncturing data from the interleaver. (See col. 24, lines 30-52 and also see Park's col. 6, lines 20-22). Therefore, it would have been obvious to a person of ordinary skill in the art, at the time the invention was made to incorporate the puncturer (rate matching) of Yi into the invention of Park to puncture interleaved data so that error rate can be reduced.

Application/Control Number: 09/701,433

Art Unit: 2133

As per claim 12, the teaching of Park and Yi have been discussed above. Yi further discloses a coder for performing error correction coding. (Col. 6, lines 29-32).

As per claims 13, 14, 16 and 18, the teaching of Park and Yi have been discussed above. Park further discloses a deinterleaver for performing deinterleaving of the data length adjusted data provided by the rate matcher. (Col. 8, line 59).

As per claim 19, this claim is also rejected under the same rationale as set forth in claim 11.

As per claim 20, this claim is also rejected under the same rationale as set forth in claim 14.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phung M. Chung whose telephone number is 703-305-9686. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert Decady can be reached on 703-305-9595. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 09/701,433

Art Unit: 2133

Page 4

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PHUNG M. CHUNG